PATENT COOPERATION TREATY

PCT

TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY (Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

	nt's or agent's file reference 08N1PCTgz	FOR FURTHER ACTION See Form PCT/IPEA/416		See Form PCT/IPEA/416					
International application No.		International filing date	(day/month/year)	Priority date (day/month/year)					
PCT	/EP2005/055176	12.10.2005		15.10.2004					
International Patent Classification (IPC) or national classification and IPC									
H01R4/30, H01R11/26									
Applica	nt								
GUSTAV KLAUKE GMBH									
1.	under Article 35 and transmitted to	the applicant according to A		International Preliminary Examining Authority					
2.	This REPORT consists of a total of	7	sheets, including thi	s cover sheet.					
3.	This report is also accompanied by	ANNEXES, comprising:							
	a. (sent to the applicant ar	nd to the International Bured	u) a total of 13	sheets, as follows:					
	sheets of the descri	ription, claims and/or drawi	ngs which have been a	amended and are the basis for this report and/or					
	sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).								
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental								
	Box.								
	b (sent to the International	ul Bureau only) a total of (in	dicate type and numbe	er of electronic carrier(s))					
	, containing a sequence listing and/or tables								
	related thereto, in electronic form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).								
4.									
ļ ⁻ .									
	Box No. I Basis of t	he report							
	Box No. II Priority								
	Box No. III Non-estal	olishment of opinion with re	gard to novelty, invent	ive step and industrial applicability					
	Box No. IV Lack of u	nity of invention							
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement								
	Box No. VI Certain de	ocuments cited							
	Box No. VII Certain de	efects in the international ap	plication						
	Box No. VIII Certain o	Certain observations on the international application							
		ate of completion of th	is report						
Daic of	such assign of the deliand		ac or completion of th	ioreport					
Name and mailing address of the IPEA/EP			uthorized officer						
The state of the Head of the H			MINIZEG OTHER						
Faccionile No.			Jankana Na						

International application No.

PCT/EP2005/055176

Box	No. I	Basis of the report						
1.	With	n regard to the language, this report is based on:						
	\boxtimes	the international application in the language in which it was	filed					
		the translation of the international application into translation furnished for the purposes of:		, which is the language of a				
		international search (Rule 12.3(a) and 23.1(b))						
		publication of the international application (Rule 12.4	(a))					
		international preliminary examination (Rule 55.2(a) as						
2.		regard to the elements of the international application, this report is based on (replacement sheets which have been furnished to the iving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to						
		the international application as originally filed/furnished						
	\boxtimes	the description:						
		pages _ 1-17		as originally filed/furnished				
		pages*						
		pages*	received by this Authority on					
	\boxtimes	the claims:						
		nos.		as originally filed/furnished				
				r with any statement) under Article 19				
		nos.* 1–30		27.04.2006 with letter				
		nos.*						
	\boxtimes	the drawings:						
		1/11 2/11 5/11 6/11		as originally filed/furnished				
		sheets* _ 2/11,4/11,7/11-11/11	manaire d bruthin Anthonity on	as originally filed/furnished 27.04.2006 with letter				
	\Box							
	Н	a sequence listing and/or any related table(s) – see Supplem	ental Box Relating to Sequence La	isting.				
3.	Ш	The amendments have resulted in the cancellation of:						
		the description, pages						
		the claims, nos.	the claims, nos.					
		the drawings, sheets/figs						
		the sequence listing (specify):						
		any table(s) related to sequence listing (specify):						
4.		This report has been established as if (some of) the amend they have been considered to go beyond the disclosure as fil						
		the description, pages						
		the claims, nos.						
		the drawings, sheets/figs						
		the sequence listing (specify):						
		any table(s) related to sequence listing (specify):						
*	If ite	m 4 applies, some or all of those sheets may be marked "supe	erseded."					

International application No.
PCT/EP2005/055176

Box			ticle 35(2) with regard to novelty, inventive step or industrial applicability; porting such statement	
1.	Statement			
	Novelty (N)	Claims	1-30	YES
		Claims		NO
	Inventive step (IS)	Claims	1-30	YES
		Claims		NO
	Industrial applicability (L	A) Claims	1-30	YES
		Claims		NO

2. Citations and explanations (Rule 70.7)

Reference is made to the following documents:

- D1: DE 94 12 215 U1 (LAMSON + SESSIONS GMBH)

 22 September 1994 (1994-09-22) cited in the application
- D2: FR-A-2 758 661 (PRONER COMATEL) 24 July 1998 (1998-07-24)

INDEPENDENT CLAIM 1:

Document D1 is considered the prior art closest to the subject matter of claim 1 and discloses:

cable lug with a tubular receiving section for the cable, a moulded on flat piece connecting section with a hole, and a nut which is captively mounted on the flat piece connecting section and is preferably rotatably mounted, the nut not penetrating the flat piece connecting section but being mounted using a mounting material section of the flat piece connecting section which engages in an undercut formed in the nut, the mounting material section being accommodated in the

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

undercut with axial clearance.

The subject matter of claim 1 thus differs in that the nut is mounted on a shaped mounting material section of the flat piece connecting section.

The subject matter of claim 1 is thus novel (PCT Article 33(2)).

The present invention can therefore be considered to address the problem of simplifying the compression connection between a nut and a cable lug.

For the following reasons, the solution to that problem as proposed in claim 1 of the present application involves an inventive step (PCT Article 33(3)):

according to the subject matter of D1, the nut must first be inserted into the flat piece connecting section, the nut at that time still projecting from the bottom of the flat piece connecting section. The nut must then be shaped so that it is captively mounted on the flat piece connecting section.

INDEPENDENT CLAIM 2

Document D2 is considered the closest prior art and discloses a cable lug with a tubular receiving section for the cable, a moulded on flat piece

Box No. V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

connecting section with a hole, and a functional piece which is captively mounted on the flat piece connecting section and is preferably rotatably mounted, the functional piece being mounted using a mounting material section which engages in an undercut formed in the functional piece, said mounting material section being rooted in a section which is gradually depressed towards the uninfluenced surrounding section of the flat piece connecting section, the undercut having an axial extension which is the same as or smaller than the axial extension of the uninfluenced flat piece connecting section, the gradual depression being rotationally symmetrical.

The subject matter of independent claim 2 differs therefrom in that the gradual depression has a conical section which opens up outwardly and vertically and has at least one conical face.

The subject matter of claim 2 is thus novel (PCT Article 33(2)).

The present invention can therefore be considered to address the problem of simplifying the compression connection between a nut and a cable lug.

For the following reasons, the solution to that problem as proposed in claim 2 of the present application involves an inventive step (PCT Article 33(3)):

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

no indication of the solution in the prior art.

INDEPENDENT CLAIM 19

Document D2 is considered the closest prior art. The subject matter of independent claim 19 differs from the disclosure of document D2 in that the functional piece is not pressed into the unshaped flat piece connecting section.

The present invention can therefore be considered to address the problem of simplifying the compression connection between a nut and a cable lug.

For the following reasons, the solution to that problem as proposed in claim 19 of the present application involves an inventive step (PCT Article 33(3)):

no indication of the solution in the prior art.

INDEPENDENT CLAIM 20

Document D2 is considered the closest prior art and discloses (see figure 2) (the references between parentheses refer to D2): a nut (2) which can be inserted in a hole (4) in a flat piece connecting section of a cable lug, the nut having on one side, relative to its screwing-on or screwing-off direction, a radially open undercut

PCT/EP2005/055176

Box No. V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

(7) in the axial direction of the nut, with an upper and a lower limiting face, the undercut being rotationally symmetrical.

The subject matter of independent claim 20 differs therefrom in that the upper limiting face is part of a rotationally symmetrical graduated face formed on the nut.

The present invention can therefore be considered to address the problem of simplifying mounting of the nut on the flat piece.

For the following reasons, the solution to that problem as proposed in claim 20 of the present application involves an inventive step (PCT Article 33(3)):

a nut according to claim 20 can be captively connected to the mounting material section but remain rotatable by pressing from above into the mounting material section.

Claims 3-18 and 21-30 are dependent on claim 1, claim 2 or claim 20 and therefore likewise meet the PCT requirements for novelty and inventive step.